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### 1 [OpenAD/F: A Modular Open-Source Tool for Automatic Differentiation Codes](#)

Jean Utke, Uwe Naumann, Mike Fagan, Nathan Tallent, Michelle Strout,裴 Chris Hill, Carl Wunsch

July 2008 **Transactions on Mathematical Software (TOMS)**, Volume 34 1

**Publisher:** ACM

Full text available: Pdf (1.73 MB) Additional Information: full citation, abstract, reference

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 98, Citation (

The Open/ADF tool allows the evaluation of derivatives of functions defined in a Fortran program. The derivative evaluation is performed by a Fortran code from the analysis and transformation of the original program that defines the function ...

**Keywords:** Automatic differentiation, adjoint compiler, source transformation

### 2 [Experiences from measuring human mobility using Bluetooth inquiry](#)

Erik Nordström, Christophe Diot, Richard Gass, Per Gunningberg

June 2007 **MobiEval '07**: Proceedings of the 1st international workshop on evaluation for mobile platforms

**Publisher:** ACM

Full text available: Pdf (322.05 KB) Additional Information: full citation, abstract, reference

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 81, Citation (

We present an analysis of human mobility measurements using Bluetooth. A large number of data traces from such measurements have been made public to benefit the research community. However, the limitations of the measurement approaches ...

**Keywords:** Bluetooth, data traces, experimentation, human mobility, network

### 3 [What do large commits tell us?: a taxonomical study of large commits](#)

Abram Hindle, Daniel M. German, Ric Holt

May 2008 **MSR '08**: Proceedings of the 2008 international working conference on software repositories

**Publisher:** ACM

Full text available:  Pdf (158.08 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)


**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 99, Citation (

Research in the mining of software repositories has frequently ignored to include a large number of files (we call these large commits). The main paper is to understand the rationale behind large commits, and if there

**Keywords:** large commits, software evolution, source control system

- 4 [Game/music interaction: an aural interface for immersive interactive](#)  
Chris Nelson, Burkhard C. Wünsche  
January 2007 **AUI C '07: Proceedings of the eight Australasian conference on Foundations of software engineering** - Volume 64


**Publisher:** Australian Computer Society, Inc.

Full text available:  Pdf (232.93 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)


**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 83, Citation (

Game music has the potential to be much more than a passive element background. The music can and should affect the game play. The game should affect the music. The player's actions can and should influence the evolution ...

**Keywords:** audio analysis, game technology, multi-sensory interfaces, synthesis, perceptual rendering

- 5 [Architectural primitives for distribution and mobility](#)  
 Ant3nia Lopes, Jos3 Luiz Fiadeiro, Michel Wermelinger  
November 2002 **SIGSOFT '02/ FSE-10: Proceedings of the 10th ACM SIGSOFT on Foundations of software engineering**

**Publisher:** ACM

Full text available:  Pdf (138.18 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)


**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation (

In this paper, we address the integration of a distribution dimension in a approach to system development and evolution based on the separation of coordination and computation. This third dimension allows us to separate concerns ...

**Keywords:** coordination, mobility, software architectures

- 6 [System Level Design and Verification Using a Synchronous Language](#)  
Gerard Berry, Michael Kishinevsky, Satnam Singh  
November 2003 **ICCAD '03: Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

**Publisher:** IEEE Computer Society

Full text available:  Pdf (434.11 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 46, Citation (


Synchronous languages such as Esterel, Lustre, Signal, and others were developed for safety-critical embedded software and compiled into C. It recently been extended to hardware with new language features and co-Contrary ...

### 7 [A Java web application for allowing multiuser collaboration and exploring existing VRML worlds](#)

Clifton G. M. Presser

March 2005 **Web3D '05**: Proceedings of the tenth international conference on technology

**Publisher:** ACM

Full text available:  Pdf (383.32 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 75, Citation (

This work describes a new Java web application that enables users to explore and annotate VRML worlds collaboratively. The web application consists of a Java Server Pages (JSP) and supporting classes. There are two significant


**Keywords:** Collaboration, ECMAScript, JSP, Java, Servlet, VRML

### 8 [Ghosts in the machine: interfaces for better power management](#)

Manish Anand, Edmund B. Nightingale, Jason Flinn

June 2004 **MobiSys '04**: Proceedings of the 2nd international conference on mobile systems, applications, and services

**Publisher:** ACM

Full text available:  Pdf (294.14 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 78, Citation (

We observe that the modularity of current power management algorithms leads to poor results. We propose two new interfaces that pierce the abstraction and inhibit device power management. First, an OS power manager allows


**Keywords:** adaptive caching, energy-awareness, power management

### 9 [Generalized file system dependencies](#)

Christopher Frost, Mike Mammarella, Eddie Kohler, Andrew de los Reyes, S. Andrew Matsuoka, Lei Zhang

October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposium on general systems principles

**Publisher:** ACM

Full text available:  Pdf (361.95 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 317, Citation (


Reliable storage systems depend in part on "write-before" relationships. When changes to stable storage are delayed until other changes commit. A journaling system, for example, must commit a journal transaction before applying

transaction's ...

**Keywords:** dependencies, file systems, journaling, soft updates




Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

- 10** [SensorScope: Out-of-the-Box Environmental Monitoring](#)  
[Guillermo Barreneixea](#), [François Ingelrest](#), [Gunnar Schaefer](#), [Martin Vetterli](#),  
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 April 2008 **IPSN '08: Proceedings of the 7th international conference on In-**  
 processing in sensor networks  
**Publisher:** IEEE Computer Society  
 Full text available:  Pdf (1.27 MB) Additional Information: [full citation](#), [abstract](#), [reference](#)  
**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 85, Citation


Environmental monitoring constitutes an important field of application for sensor networks. Given the severity of potential climate changes, environmental monitoring on cities, and pollution, it is a domain where sensor networks can have

**Keywords:** Wireless sensor networks, environmental monitoring, deployment

- 11** [Estimates of multicarrier CDMA system capacity](#)  
[Tony Dean](#), [Phil Fleming](#), [Alexander Stolyar](#)  
 December 1998 **WSC '98: Proceedings of the 30th conference on Winter simulation**  
**Publisher:** IEEE Computer Society Press  
 Full text available:  Pdf (79.81 KB) Additional Information: [full citation](#), [references](#), [index](#)  
**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 18, Citation
- 12** [Bluetooth and WAP push based location-aware mobile advertising systems](#)  
 [Lauri Aalto](#), [Nicklas Göthlin](#), [Jani Korhonen](#), [Timo Ojala](#)  
 June 2004 **MobiSys '04: Proceedings of the 2nd international conference on mobile systems, applications, and services**  
**Publisher:** ACM  
 Full text available:  Pdf (469.83 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)  
**Bibliometrics:** Downloads (6 Weeks): 84, Downloads (12 Months): 521, Citation

Advertising on mobile devices has large potential due to the very personal nature of the devices and high targeting possibilities. We introduce a novel system for delivering permission-based location-aware mobile advertisements



**Keywords:** Bluetooth positioning, context-aware, location-aware, location services, mobile advertising, wireless advertising

- 13** [RapidIO for radar processing in advanced space systems](#)  
 [David Bueno](#), [Chris Conger](#), [Alan D. George](#), [Ian Troxel](#), [Adam Leko](#)  
 December 2007 **Transactions on Embedded Computing Systems (TECS)**

**Publisher:** ACMFull text available:  Pdf (1.02 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 197, Citation



Space-based radar is a suite of applications that presents many unique challenges. In this paper, we investigate use of RapidIO, a new high-performance embedded systems interconnect, in addressing issues associated with the network ...

**Keywords:** RapidIO, ground-moving target indicator, space-based radar, aperture radar

**14** [Print-n-link: weaving the paper web](#) [Molra C. Norrie, Beat Signer, Nadir Weibel](#)October 2006 **DocEng '06**: Proceedings of the 2006 ACM symposium on Document engineering**Publisher:** ACMFull text available:  Pdf (1.68 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 94, Citation

Citations form the basis for a web of scientific publications. Search engines, hyperlinks and digital libraries all simplify the task of finding publication the web and navigating to cited publications or web sites. However the

**Keywords:** citation management, digital library, document integration, paper

**15** [On incremental file system development](#) [Erez Zadok, Rakesh Iyer, Nikola Joukov, Gopalan Sivathanu, Charles P. W. May](#) 2006 **Transactions on Storage (TOS)**, Volume 2 Issue 2**Publisher:** ACMFull text available:  Pdf (260.40 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 224, Citation

Developing file systems from scratch is difficult and error prone. Using a stackable, file systems is a powerful technique to incrementally extend existing file systems on commodity OSes at runtime. In this article, we

**Keywords:** I/O manager, IRP, Layered file systems, VFS, extensibility, systems, vnode

**16** [Adapting a single-user, single-display molecular visualization application to a multi-user, multi-display environment](#) [Clifton Forlines, Ryan Lillen](#)May 2008 **AVI '08**: Proceedings of the working conference on Advanced visualization**Publisher:** ACMFull text available:  Pdf (653.31 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 78, Citation

In this paper, we discuss the adaptation of an open-source single-user, molecular visualization application for use in a multi-display, multi-user Jmol, a popular, open-source Java applet for viewing PDB files, is modif

### 17 Pointer analysis for structured parallel programs



Radu Rugina, Martin C. Rinard

January 2003 **Transactions on Programming Languages and Systems**

Volume 25 Issue 1

**Publisher:** ACM

Full text available: Pdf (383.29 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 86, Citation

This paper presents a novel interprocedural, flow-sensitive, and context pointer analysis algorithm for multithreaded programs that may concurr shared pointers. The algorithm is designed to handle programs with stru parallel ...

**Keywords:** Pointer analysis

### 18 Cyberanthropology of mobility



Harold (Hal) Thwaites

October 2006 **Mobility '06:** Proceedings of the 3rd international conference technology, applications & systems

**Publisher:** ACM

Full text available: Pdf (789.68 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 95, Citation

This paper examines the discourse around virtuality and immersion with its sites of influence: the internet, mobility, wireless-ness, connectivity, a cyberanthropological perspective. The concept of the information chai

**Keywords:** audience, communication, cyberanthropology, cyberception information chain, mobility, multimedia technology, virtuality

### 19 Pragmatic text mining: minimizing human effort to quantify many iss



George Forman, Evan Kirshenbaum, Jaap Suermondt

August 2006 **KDD '06:** Proceedings of the 12th ACM SIGKDD international Knowledge discovery and data mining


**Publisher:** ACM


Full text available: Pdf (852.08 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 119, Citation

We discuss our experiences in analyzing customer-support issues from free-text fields of technical-support call logs. The identification of frequent their accurate quantification is essential in order to track aggregate cost

**Keywords:** applications, log processing, quantification, supervised mac text classification, text mining

**20** TinyDB: an acquisitional query processing system for sensor network  
 Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong  
 March 2005 **Transactions on Database Systems (TODS)** , Volume 30 Issue  
**Publisher:** ACM

Full text available:  Pdf (1.67 MB) Additional Information: full citation, abstract, reference terms, review

**Bibliometrics:** Downloads (6 Weeks): 78, Downloads (12 Months): 5266, Citations: 1

We discuss the design of an acquisitional query processor for data collection networks. Acquisitional issues are those that pertain to where, when, and how data is physically acquired (*sampled*) and delivered to query processing.

**Keywords:** Query processing, data acquisition, sensor networks

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